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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/827,326	04/20/2004	Byoung-Deog Choi	1514.1040	2924	
49455 75	590 02/24/2006			EXAMINER	
STEIN, MCEWEN & BUI, LLP			CRANE, SARA W		
1400 EYE STREET, NW SUITE 300			ART UNIT	PAPER NUMBER	
	WASHINGTON, DC 20005				
			DATE MAIL ED: 02/24/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)				
	Application No.	Applicant(s)				
Office Action Summan	10/827,326	CHOI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sara W. Crane	2811				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available noter the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 30 November 2005.						
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3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-33 is/are pending in the application.						
4a) Of the above claim(s) <u>25-30</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) 1-24 and 31-33 are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) I he oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
- See the attached detailed Office action for a list	or the certified copies not receive	ea.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/22/05. 		Patent Application (PTO-152)				

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DETAILED ACTION

Applicant's election with traverse of 1-24 and 31-33 in the reply filed on 11/30/2005 is acknowledged. The traversal is on the ground(s) that no references were cited to show necessity for restriction. This is not found persuasive because there is no requirement to cite references to show necessity for restriction. Indeed, what would such evidence be relevant to show? References are cited with respect to a determination of patentability, not a requirement for restriction. Burden is shown by separate classification, and by the separate concepts that must be addressed as noted in the showing of distinctness.

The requirement is still deemed proper and is therefore made FINAL.

Election/Restrictions

This application contains claims directed to the following patentably distinct species:

- 1. Claims drawn to the application of a voltage to a channel region specifically to discharge hot carriers. (claims 1-6, 16-19, 31-33)
- 2. Claims drawn to specific structures for applying a voltage to a channel region, for any purpose. (claims 7-15, 20-24)

The species are independent or distinct because the two sets of claims involve two different concepts. The first set of claims could be patentable, even if the second is not patentable, because the first set of claims requires the voltage applied to discharge hot carriers, and the second set of claims does not require anything at all about hot

carriers. The second set of claims could be patentable, even if the first is not patentable, because these claims require that a voltage is applied to a channel region through either a body contact region, or a bias supply layer. While the first set of claims does recite (at claim 3 for example) a bias supply layer, this layer in these claims does not necessarily itself supply voltage to the channel region. (Claim 3 says only that the voltage applied to the channel region is also directly applied to the bias supply layer.)

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

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requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Sara W. Crane

Primary Examiner Art Unit 2811